

## ABSTRACT

This invention is directed to the use of non-sulfur containing compounds as collectors in the froth flotation of certain mineral sulfide and metallic compounds. These non-sulfur-containing compounds may be from natural sources, such as vegetable oils, or synthesized commercial sources. These non-sulfide collectors can be used singularly, in combinations, and in mixtures with known commercial sulfur containing collectors. These non-sulfur-containing collectors are compatible with common frothers.